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APPLICATION NO.			ROC920010078US1	1266
09/829,834	04/10/2001	Joseph R. Edwards		
7590 04/21/2004			EXAMINER	
Leslie J. Payne			ROCHE, TRENTON J	
IBM Corporation-Dept. 917			ART UNIT	PAPER NUMBER
3605 Highway 52 North			2124	2
Rochester, MN	1 55901			
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
•	09/829,834	EDWARDS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Trent J Roche	2124			
The MAILING DATE of this communication appeared for Reply					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail - earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) d id will apply and will expire SIX (6) MONTHS fro	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10 April 2001.					
2a) ☐ This action is FINAL . 2b) ☑ The second it is a condition for all on the second it is a	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on 10 April 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the corumn 11) ☐ The oath or declaration is objected to by the	a)⊠ accepted or b)⊡ objected the drawing(s) be held in abeyance. Frection is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in Applic oriority documents have been rece reau (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment(s)		(DTO 412)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 8/08)	nary (PTO-413) iil Date nal Patent Application (PTO-152)			
LID Device and Tradework Office		D. 1 of Donor No. (Mail Date 2			

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DETAILED ACTION

Claims 1-14 have been examined.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 3 recites the limitation "said ATM information element (IE)" in line 2. There is insufficient antecedent basis for this limitation in the claim. For purposes of examination this will be interpreted to read "an ATM information element (IE)..."

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The invention as disclosed in claims 1-14 is directed to non-statutory subject matter. The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful,

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concrete and tangible result." (State Street Bank & Trust Co. v. Signature Financial Group Inc., 149 F.3d at 1373, 47 USPQ2d at 1601-02.)

Specifically, independent claim 1 is directed to a method for parsing and generating data structures by defining length and location parameters in a data structure, further storing or placing the parameters within an identification object in a data structure definition. However, the claims are non-functional descriptive material which merely represent an abstract idea or concept, and do not indicate a certain level of "real world" value or practical application for the claimed invention. Furthermore, the intended functionality of parsing and generating are mere allegations towards functionality, as the claims do not disclose any details pertaining to the parsing and generating of data structures. Thus, Applicants fail to disclose that the claimed functions of utilizing and storing have practical applications which produce useful, concrete, and tangible results under the State Street Formulation.

Similarly, independent claim 10 represents an abstract idea or concept, furthermore, the claimed compiler and platform independent framework are mere allegations towards functionality, as the claims do not disclose any details pertaining to the compiler and platform independent framework.

Equally, independent claim 14 represents an abstract idea or concept, furthermore, the intended functionality of parsing and generating are mere allegations towards functionality, as the claims do not disclose any details pertaining to the parsing and generating of data structures.

Finally, dependent claims 2-9 and 11-13 do not set forth any additional functionality pertaining to the claimed steps in the independent claims, and are rejected for the same reasons.

On this basis, claims 1-14 are rejected under 35 U.S.C. § 101.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1 and 10-14 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent

5,870,749 to Adusumilli.

Regarding claim 1:

Adusumilli teaches:

- a method for parsing and generating data structures ("automatic generation of data

structures for use in communicating with devices..." in lines 18-20 of the Abstract)

- utilizing sizeof and offsetof functions, defining a length and a location of each parameter of

a data structure ("The CStructureSize field contains the size of the C structure...(the size of the C)

operator may be used to compute this size... The fieldOffset field is set to the offset of the

corresponding field in the C structure ... (the offsetof() macro may be used to compute the

offset of the field)" in col. 11 lines 30-50)

- storing said length and said location of each said parameter of the data structure within an

identifier object in a data structure definition ("The CStructureSize field contains the size of

the C structure...(the sizeof() operator may be used to compute this size... The fieldOffset

field is set to the offset of the corresponding field in the C structure ... (the offset of () macro

may be used to compute the offset of the field)" in col. 11 lines 30-50. The CstructureSize

and fieldOffset fields are the parameters of the data structure.)

substantially as claimed.

Regarding claim 10:

Adusumilli teaches:

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- a compiler and platform independent framework for parsing and generating data structures ("The ASN.1 compiler and GDMO compiler parse the ASN.1 and GDMO definitions and generate meta data that represent the information provided in original source files in a format that is convenient for use by other applications..." in col. 6 lines 5-9)
- means for defining a length and a location of each parameter of a data structure utilizing size of and offset of functions ("The CStructureSize field contains the size of the C structure...(the size of the corresponding field in the C structure ... (the offset of the corresponding field in the C structure ... (the offset of the corresponding field in the C structure ... (the offset of the field)" in col. 11 lines 30-50)
- means for storing said length and said location of each said parameter of the data structure within an identifier object in a data structure definition ("The CStructureSize field contains the size of the C structure... (the sizeof() operator may be used to compute this size... The fieldOffset field is set to the offset of the corresponding field in the C structure ... (the offsetof() macro may be used to compute the offset of the field)" in col. 11 lines 30-50. The CstructureSize and fieldOffset fields are the parameters of the data structure.)

Regarding claim 11:

The rejection of claim 10 is incorporated, and further, Adusumilli discloses procedural table-driven or object rules-driven methods as claimed (Note at least Figures 3-7 and the corresponding sections of the disclosure.)

Regarding claim 12:

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The rejection of claim 10 is incorporated, and further, Adusumilli discloses protocol data units (PDUs) as claimed ("a method for translating CMIP PDUs to/from custom designed data structures..." in col. 2 lines 46-47)

Regarding claim 13:

The rejection of claim 10 is incorporated, and further, Adusumilli discloses control code for writing and reading headers for data storage as claimed ("a method for translating CMIP PDUs to/from custom designed data structures..." in col. 2 lines 46-47. A header is inherently present in the PDU.)

Regarding claim 14:

Adusumilli teaches:

- a computer program product for parsing and generating data structures in a computer system ("automatic generation of data structures for use in communicating with devices..."
 in lines 18-20 of the Abstract)
- said computer system having a processor, a memory controller coupled to said processor by a system bus, a main memory coupled to said memory controller, said computer program product including a plurality of computer executable instructions stored on a computer readable medium ("A computer disk can be used to store the code implementation of the configuration..." in col. 24 lines 46-47. For the system to generate data structures and use size of and offset of functions, a processor, memory controller and main memory coupled to the memory controller must inherently be present in the system for the functions to execute.)

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- utilizing sizeof and offsetof functions, defining a length and a location of each parameter of a data structure ("The CStructureSize field contains the size of the C structure...(the sizeof() operator may be used to compute this size... The fieldOffset field is set to the offset of the corresponding field in the C structure ...(the offsetof() macro may be used to compute the offset of the field)" in col. 11 lines 30-50)
- storing said length and said location of each said parameter of the data structure within an identifier object in a data structure definition ("The CStructureSize field contains the size of the C structure... (the size of operator may be used to compute this size... The fieldOffset field is set to the offset of the corresponding field in the C structure ... (the offset of macro may be used to compute the offset of the field)" in col. 11 lines 30-50. The CstructureSize and fieldOffset fields are the parameters of the data structure.)

substantially as claimed.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 2-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,870,749 to Adusumilli in view of U.S. Patent 6,028,863 to Sasagawa et al, hereafter referred to as Sasagawa.

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Regarding claim 2:

The rejection of claim 1 is incorporated, and further, Adusumilli does not disclose the data structure being an ATM information element. Sasagawa discloses in an analogous communication system using PDUs a data structure being an ATM information element (Note figure 32 and the corresponding section of the disclosure). As indicated by Sasagawa, ATM information element data structures were well known at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the steps of utilizing sizeof and offsetof functions to define a length and location, and storing the length and location in a data structure, the data structure being an ATM information element, as this would allow a user to represent attribute data in a space-efficient manner or in a form suitable for efficient database access, as stated in col. 2 lines 16-22 of Adusumilli.

Regarding claim 3:

The rejection of claim 1 is incorporated, and further, Adusumilli does not disclose an ATM information element being a Connection Identifier. Sasagawa discloses in an analogous communication system using PDUs an ATM information element being a Connection Identifier (Note Figure 43 and the corresponding section of the disclosure). As indicated by Sasagawa, Connection Identifiers were well known at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the steps of utilizing sizeof and offsetof functions to define a length and location, and storing the length and location in a Connection Identifier, as this would allow a user to represent attribute data in a space-efficient manner or in a form suitable for efficient database access, as stated in col. 2 lines 16-22 of Adusumilli.

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Regarding claim 4:

The rejection of claim 3 is incorporated, and further, Adusumilli does not disclose a preferred/exclusive parameter. Sasagawa discloses in an analogous communication system using PDUs a preferred/exclusive parameter ("The invariable indication field 'preferred/exclusive' contains the following 3-bit values" in col. 2 lines 65-67). As indicated by Sasagawa, preferred/exclusive parameters were well known at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the steps of utilizing sizeof and offsetof functions to define a length and location of a preferred/exclusive parameter, as this would allow a user to represent attribute data in a space-efficient manner or in a form suitable for efficient database access, as stated in col. 2 lines 16-22 of Adusumilli.

Regarding claim 5:

The rejection of claim 3 is incorporated, and further, Adusumilli does not disclose a virtual path connection identifier (VPCI) parameter. Sasagawa discloses in an analogous communication system using PDUs a virtual path connection identifier (VPCI) parameter (Note Figure 3 and the corresponding section of the disclosure). As indicated by Sasagawa, virtual path connection identifier (VPCI) parameters were well known at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the steps of utilizing sizeof and offsetof functions to define a length and location of a virtual path connection identifier (VPCI) parameter, as this would allow a user to represent attribute data in a space-efficient

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manner or in a form suitable for efficient database access, as stated in col. 2 lines 16-22 of .

Adusumilli.

Regarding claim 6:

The rejection of claim 3 is incorporated, and further, Adusumilli does not disclose a virtual channel identifier (VCI) parameter. Sasagawa discloses in an analogous communication system using PDUs a virtual channel identifier (VCI) parameter (Note Figure 3 and the corresponding section of the disclosure). As indicated by Sasagawa, virtual channel identifier (VCI) parameters were well known at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the steps of utilizing sizeof and offsetof functions to define a length and location of a virtual channel identifier (VCI) parameter, as this would allow a user to represent attribute data in a space-efficient manner or in a form suitable for efficient database access, as stated in col. 2 lines 16-22 of Adusumilli.

Regarding claim 7:

The rejection of claim 4 is incorporated, and further, Sasagawa discloses storing a preferred/exclusive parameter in a preferred/exclusive parameter identifier object in a data structure definition ("The invariable indication field 'preferred/exclusive' contains the following 3-bit values" in col. 2 lines 65-67. Further, note Figure 3 and the corresponding section of the disclosure.)

Regarding claim 8:

The rejection of claim 5 is incorporated, and further, Sasagawa discloses storing a virtual path connection identifier (VPCI) parameter in a virtual path connection identifier (VPCI) parameter

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identifier object in a data structure definition (Note Figure 3 and the corresponding section of the disclosure.)

Regarding claim 9:

The rejection of claim 6 is incorporated, and further, Sasagawa discloses storing a virtual channel identifier (VCI) parameter in a virtual channel identifier (VCI) parameter identifier object in a data structure definition (Note Figure 3 and the corresponding section of the disclosure.)

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trent J Roche whose telephone number is (703)305-4627. The examiner can normally be reached on Monday - Friday, 9:00 am - 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703)305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Trent J Roche Examiner Art Unit 2124

TJR

TODO INÉBERG PRIMARY EXAMINER